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VAN 07.10

High Resolution D/N IR Dome Camera **SIR-4250** User's Manual

Thank you for purchasing a SAMSUNG CCD CAMERA.
Before attempting to connect or operate this product,
please read these instructions carefully and save this manual for future use.

ENGLISH

Before operating the camera, confirm the camera model and proper input power voltage. In order to that you can understand this manual thoroughly, we'll introduce our model description.

■ SIR-4250 SERIES

- NTSC MODELS
  SIR-4250N
- PAL MODELS
  SIR-4250P

■ MODEL DESCRIPTION

- SIR-4250 X
  - SIGNAL SYSTEM

- SIGNAL SYSTEM
  N --> NTSC MODEL
  P --> PAL MODEL

The lightning flash with an arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

INFORMATION - This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.
Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING - Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

CAUTION : To prevent electric shock and risk of fire hazards:

- ◆ Do NOT use power sources other than that specified.
- ◆ Do NOT expose this appliance to rain or moisture.

This installation should be made by a qualified service person and should conform to all local codes.

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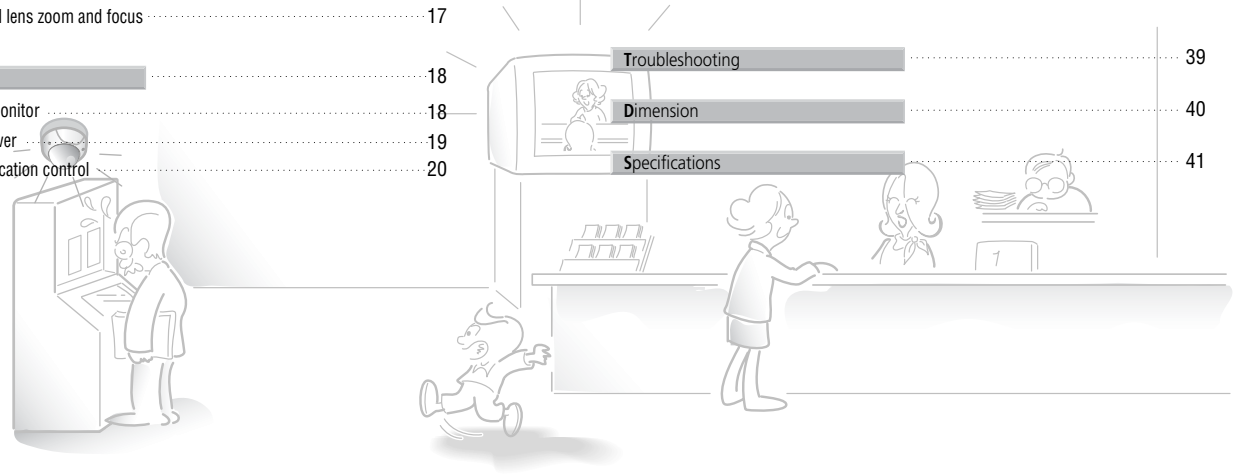


Features

Ultra High Sensitivity

The built-in high sensitivity COLOR CCD enables a clear image even in 0Lux(B/W, IR-LED ON)or lower illumination.

High Resolution

Featuring 520TV line horizontal resolution in color mode and 570TV line horizontal resolution in BW moe. The camera features Sony's 410,000 pixel CCD and capture clean, noiseless high-quality image

DAY&NIGHT(ICR)

This camera has a function that automatically selects the mode that is appropriate for daytime or night-time conditions.
The COLOR mode operates in daytime conditions to provide optimum colors, and BW mode operates in night-time conditions to enhance the definition of the image.

SSNR (Samsung Super Noise Reduction)

By using built-in SSNR Chip manufactured by SAMSUNG TECHWIN, the amount of low illuminance noise has been significantly reduced, and the signal-to-noise ratio (S/N) as well as horizontal resolution have been improved, resulting in a clear and sharp image display even in the dark.

Indoor Visibility range 16M

If B/W mode, IR-LED is lighted, 0 Luxes' Outdoor visibility range 16M guarantees is available.

RS-485 Function

Use RS485 communication and OSD menu control does possibility to remote.

Sub Monitor Function

The sub monitor function enables easy adjustment of the camera angle within the monitoring range during its installation.

3-Axis camera mechanism

The SIR-4250 is especially incredibly flexible to install with its 3-axis camera construction, which makes the camera wall or slope mountable.

PRIVACY Masking Function

The PRIVACY masking function conceals the areas you do not wish to appear on the screen.

Additional Function

SENS-UP, MIRROR, SHARPNESS,
MOTION DET. functions are also available.

eco
RoHS compliant

Samsung Techwin cares for the environment at all product manufacturing stages to preserve the environment, and is taking a number of steps to provide customers with more environment-friendly products.The Eco mark represents Samsung Techwin's will to create environment-friendly products, and indicates that the product satisfies the EU RoHS Directive.

Warnings & Cautions

This information is provided to ensure your safety and to prevent any losses, financial or otherwise. Please read it carefully and use the product accordingly.

* For product inquiries, please contact the retail shop where you bought the camera. The use of equipment such as an aerial ladder while providing after-sales service shall be at your expense.
* Disconnect the power cord temporarily during a thunderstorm or in case of lightning, in order to prevent fire or damage to the product.
* This product is auxiliary equipment for a surveillance system and the company shall not be held liable for any damage to property or injury caused by theft, fire or act of god.

Warning/Attention/Special Mark Messages

	Ignoring this information may result in death or or serious personal injuries.		Ignoring this information may result in material loss or personal injuries.
	Indicates "Never Allowed."		Indicates "No Disassembling."

Correct Disposal of This Product
(Waste Electrical & Electronic Equipment)
(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract.
This product should not be mixed with other commercial wastes for disposal.

Precautions

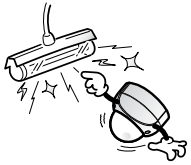
Do not install under extreme temperature conditions.

Use only under temperature conditions between -10˚C and +50˚C. Provide good ventilation when using in high temperature conditions.

Do not install in high humidity environment.

May lower image quality.

Do not install under unstable lighting conditions.



Severe lighting changes or flickering may hinder normal camera operation.

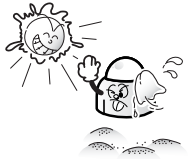
Avoid touching the camera lens.

The lens is the most important component of the camera. Be careful not to smear it with fingerprints.

Do not drop the camera or subject it to physical shock.

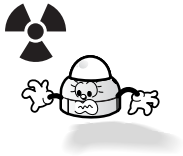
May cause a product malfunction.

Never keep the camera face to strong light directly.



May damage the CCD.

Do not expose the camera to radioactivity.



Radioactivity exposure may damage the CCD.

Do not expose the camera to rain or other types of liquids.

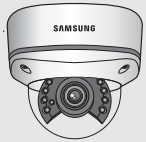
Wipe dry any liquids. Liquids may contain minerals that are corrosive to electronic components.

Notes

- Exposure to a spotlight or an object emitting strong light may cause smear or blooming.
- Ensure that the power source complies with normal specifications before supplying it to the camera.
- In case of IR LED has been lighted, do not lighten directly eye.

Components and Accessories

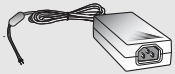
1. High Resolution D/N IR Dome Camera
   SIR-4250



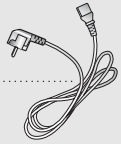
2. M4 Tapping Screws 4EA

3. USER'S MANUAL

4. DC 12V/4A Adaptor



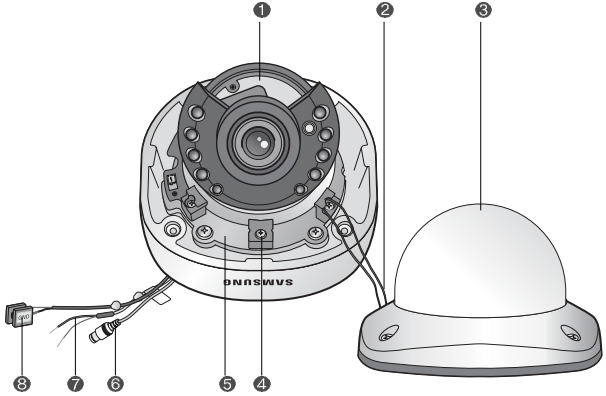
5. POWER CABLE



6. Sub Monitoring Cable

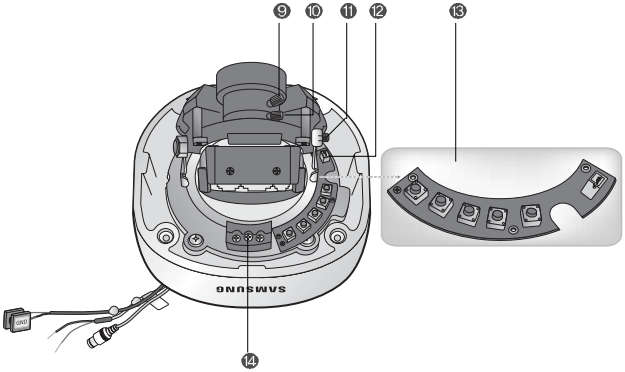
Overview

FRONT



❶**Rotate Base** : control rotating angle of camera
❷**Safety ring**
❸**Dome Cover**
❹**Pan base Holding Screws (Color:Silver)** : Fix panned position.
❺**Pan Base** : control panning angle of camera
❻**Video output terminal**
❼**RS-485 Control terminal** : The detailed decription refers to p20.
❽**Power input terminal**

BACK

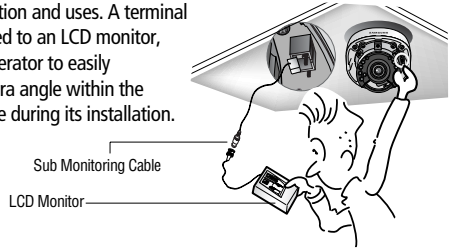


⑥ **Focus Handle** : To provide for accurate focusing of an object within the lens field of view.

⑩ **Zoom Handle** : To adjust zoom magnification by turning.

⑪ **Rotate Base Holding Screw** : fix rotated position.

⑫ **Sub monitoring cable** : When install camera, connect with monitor for image confirmation and uses. A terminal can be connected to an LCD monitor, allowing the operator to easily adjust the camera angle within the monitoringrange during its installation.



⑬ **Function Button**

- SETUP button : Used for the menu display. Confirm the status of the selected function.
- Right , Left button : Used when changing item values, by moving the cursor to the left or right on the menu screen
- Down , Up button : Used when changing item values, by moving the cursor to the up or down on the menu screen

⑭ **Pan base Holding Screws (Color:Silver)** : Fix panned position.

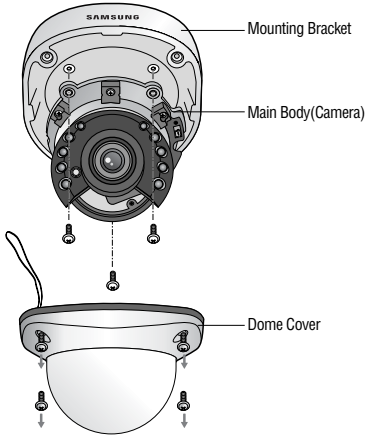
Installation

Installation

Notes

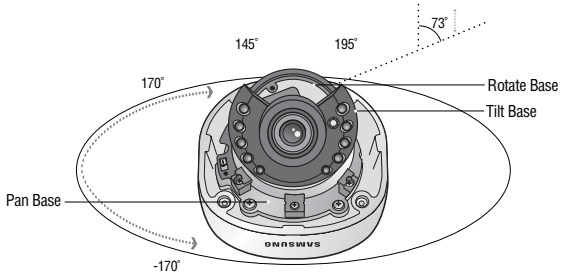
- The installation should be done by qualified service personnel or sysytem installers.
- If the ceiling material is not strong enough to hold the installation screws, the camera may fall off. Reinforce the ceiling as needed.
- Take care not to drop the product during installation. Do not allow anyone to stand below the installation area.

1) Remove the dome cover and shield case from the main body by loosening the three dome cover screws.



2) And then remove the main body from mounting bracket by the four main body screws.

Adjust the panning and tilting, rotating while watching the monitor

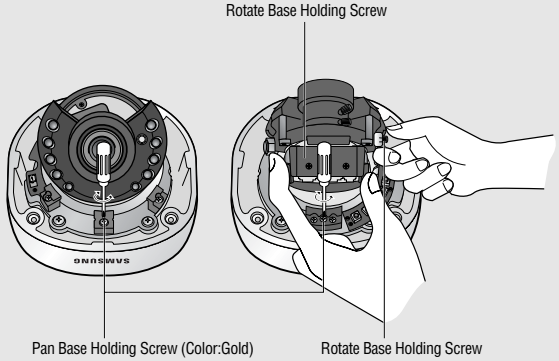


1) You can adjust camera to any direction by using Pan, Tilt, Rotate mechanism.
   - Pan Base moves by 170˚ to each side direction and 340˚ on the whole.
   - Tilt Base covers total 146˚ angle(73˚ to each side).
   - Angle range of Rotate Base is the same as that of Pan Base. But One side range is 195˚ and another is 145˚.

2) Methods of adjustment
   - The case of wall installation
     1. After mounting the camera on a wall, adjusting the panning angle so that the camera can face the direction to monitor when tilting.
     2. And then adjust the tilting angle by rotating the tilt base.
     3. Loosen the rotate base hold screw and adjust rotate base for the best monitoring.
     4. Tighten the rotate base hold screw.
   - The case of ceiling installation
     1. After mounting the camera on a ceiling, adjusting the panning angle for better monitoring area by rotating the pan base.
     2. And then adjust the tilting angle by rotating the tilt base.

Notes

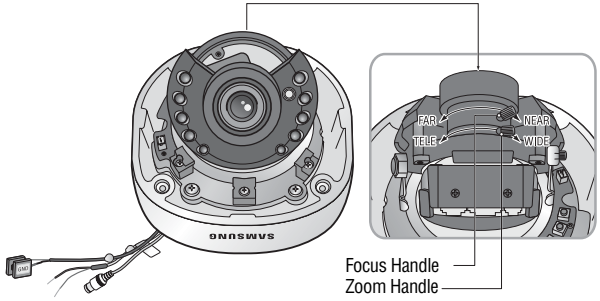
- When adjusting the rotating angle, loosen rotate base holding screw as following Figure A. And then tighten it again.
- When adjusting the tilting angle, just grip the tilt base and adjust tilting angle.
- When adjusting the panning angle, loosen pan base holding screws as the following Figure B. And then tighten them again.



- In case of adjusting the tilting, do not take the lens for preventing physical shocks. Please take the Tilt Base

Adjusting varifocal lens zoom and focus

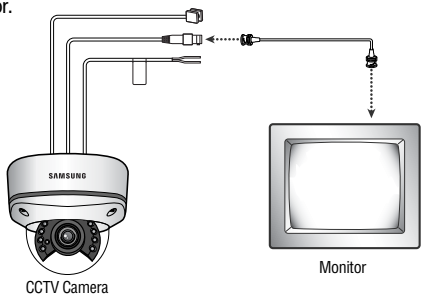
1) Unlock the zoom(or the focus) handle to release it
2) Adjust the zoom(or the focus) handle by moving it to WIDE(NEAR) or TELE (FAR) position.
3) After adjustment, tighten the zoom(or the focus) handle, taking care that the adjusted position does not change.



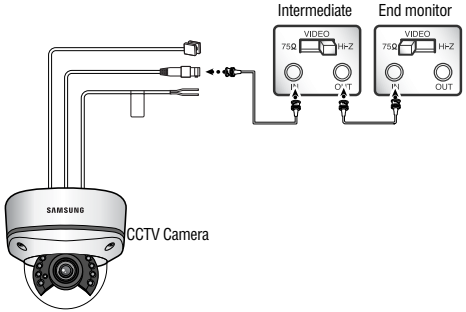
Connection

Connecting to Monitor

Please connect the video output terminal located on the back of the camera to the monitor.

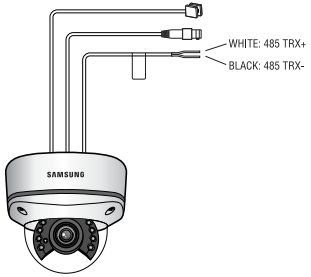


- The connection method varies depending on the type of monitor and accessories. Please refer to the user's manual for each instrument.
- Please turn off the power when connecting.
- Please select Hi-Z on the 75Ω/Hi-Z switch for the intermediate video TV set and select 75Ω for the Intermediate device as shown in the picture below.



Connecting to Power

The recommended adaptor specification for SIR-4250N/P is DC 12V/4A.
Please check the standard power requirement before connecting to power.



When the resistance value of copper wire is at [20°C(68°F)]

Copper wire size(AWG)	#24(0.22mm²)	#22(0.33mm²)	#20(0.52mm²)	#18(0.83mm²)
Resistance value(Ω/m)	0.078	0.050	0.030	0.018
Voltage drop(V/m)	0.028	0.018	0.011	0.006

- As shown in the table above, voltage decreases as the wire gets longer. Therefore use of an excessively long adaptor output line for connection to the camera may affect the performance of the camera.

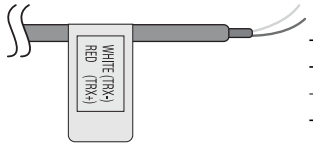
※ Standard voltage for camera operation : DC 12V±10%
※ There may be some deviation in voltage drop depending on the type of wire and the manufacturer.

Notes

- Please must be used adaptor that meets the standard requirement.
- Please connect the power after installation.

RS-485 communication control

Connecting to RS-485 CONTROL TERMINAL



CONTROL TERMINAL	SPEC
WHITE (TRX+)	RS-485+
BLACK (TRX-)	RS-485-

Using a RS-485 communication, it will be able to control the OSD menu at the SAMSUNG TECHWIN System Controller or DVR.

(1) The case which it controls from the PC

Using a RS-485 converter, It connects to RS-485 CONTROL TERMINAL outside camera and serial cable

EX) SERIAL PORT OF THE PC(COM1) — SERIAL CABLE -- RS-485 CONVERTER -- RS-485 CONTROL TERMINAL

(2)The case which it controls from the DVR or System Controller

It connects the RS-485 CONTROL TERMINAL in the connection terminal of 485 control boards which are connected with the DVR or System Controller.

485 CONTROL BOARD CONNECTION TERMINAL	RS-485 CONTROL TERMINAL
(+)CONNECTION TERMINAL	WHITE (TRX+)
(-)CONNECTION TERMINAL	BLACK (TRX-)

Notes

- When you construct external control systems for a camera control, please use to the PELCO-D PROTOCOL.

Menu

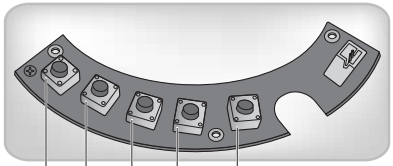
SETUP menu			
LENS	• DC		
SHUTTER (condition and speed control)	• - - - -	• FLK	
WHITE BALANCE control	• ATW	• AWC	• MANUAL
BACKLIGHT (Backlight compensation)	• OFF • HIGH	• LOW	• MIDDLE
AGC (Auto Gain control)	• OFF	• NORMAL	• HIGH
SSNR (Samsung super noise reduction)	• OFF • HIGH	• LOW	• MIDDLE
SENS-UP (Low illuminance)	• OFF	• AUTO	
SPECIAL	• CAMERA ID • MOTION DET • COMM ADJ • RESET	• DAYNIGHT • PRIVACY • IMAGE ADJ • RETURN	
EXIT			

Operating Your Camera

Settings can be made using the RS-485 communication

Function setting uses 5 buttons within this product or RS-485 communication.

1. Function setting that use button



2. Function setting that use RS-485 communication

Please refer 20 pages (RS-485 communication control) and connect to the RS-485 control terminal(TRX+, TRX-)

1) When use SCC-3100A PELCO-D Protocol setting method

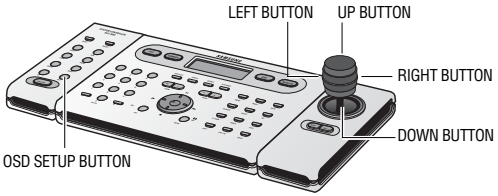
< SETUP SYSTEM MENU >

❶PTZ selection : PTZ SETUP2 selection → 1) MODEL : PTZ ID, PELCO-D Protocol selection.

❷CONTROLLER selection : SERIAL selection → 1. BAUD, 2. DATA, 3. STOP BIT, 4. PARITY setting

* OSD button : Display OSD menu on the monitor or there is a sub-menu which can be selected by pressing OSD button.

* JOYSTICK : It can move menu cursor by upside, downward, the left side and the right side . Joystick do Up/Down/Right/Left button functions according to 4 directions that move.

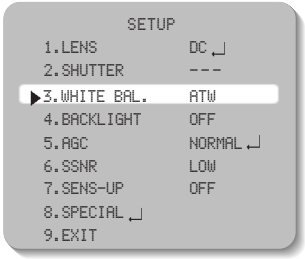


Notes

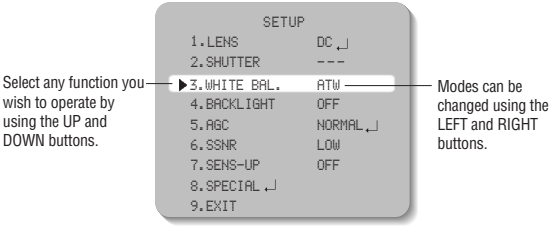
• Please set RS-485 communication setting of controller and camera equally.

Operating Your Camera

1. Please press the SETUP button.
   • Settings can now be made. The SETUP menu is displayed on the monitor.



2. Please select any function you wish to activate by using the UP and DOWN buttons.
   • The arrow can be moved up or down by using the UP and DOWN buttons. Please position the arrow to point to the function you wish to operate.



3. Please press the LEFT or RIGHT button if you wish to change mode.
   • When the LEFT or RIGHT button is pressed, available values and modes are displayed in order. Please keep pressing the button until you get to the mode you wish to operate.
4. Please select 'EXIT' and then press the SETUP button to finish the setting.

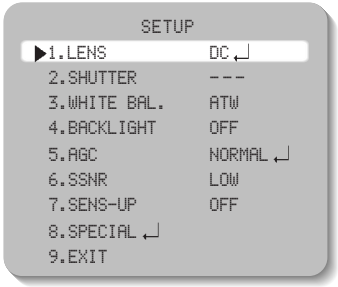
Notes

- If ↵appears at the mode you wish to operate, it means that there is a sub-menu which can be selected by pressing the SETUP button.
- If – – –appears at the mode item, it means that there is no mode available to be selected.

LENS (Adjusting to the brightness level)

This function is used to adjust the brightness of the screen.

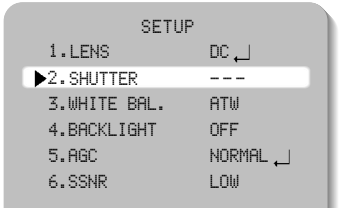
1. When the SETUP menu is displayed on the screen, please position the arrow to point to 'LENS' by using the UP and DOWN buttons.
2. Using the SETUP button, you can control the brightness of the screen.



3. Please press the SETUP button if you wish to return to the previous menu.

SHUTTER (condition and speed control)

Because SIR-4250 uses built-in dc lens, shutter speed is fixed at 1/60 basically.

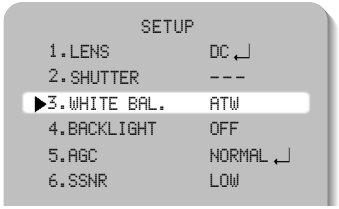


- **----** : Shutter speed is fixed at 1/60(1/50)
- **FLK** : Please select 'FLK' mode when flickering occurs on the screen, due to an imbalance between illumination and frequency.
  NTSC Model : 1/100, PAL MODEL : 1/120

WHITE BALANCE control

The screen color can be adjusted by using the WHITE BALANCE function.

1. Please position the arrow to point to 'WHITE BAL' on the SETUP menu by using the UP and DOWN buttons.
2. Please select the mode you wish to operate by pressing the LEFT or RIGHT button.



※ Please select one of the 3 modes below.

- **ATW(Auto Tracking White Balance)** : This mode can be used within the color temperature range 1,800˚K ~ 10,500˚K (Ex. fluorescent light, outdoor, sodium vapor lamp or inside tunnels)
- **AWC(Auto White Balance Control)** : Please press the SETUP button while the camera is directed at a piece of white paper to obtain the optimum state under current illumination. If the environment including the light source is changed, you have to adjust the white balance again.
- **MANUAL**: The manual adjustment mode enables finer adjustment. Please select ATW or AWC first. Please change to manual adjustment mode and press the SETUP button. Please set the appropriate color temperature, and then increase or decrease the red and blue color values while monitoring the color changes on the object.

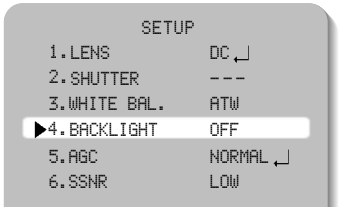
Notes

- Under the following conditions the WHITE BALANCE function may not operate properly. In such cases, please select the AWC mode.
  1. When the object's surroundings have a very high color temperature. (Ex. a clear sky and sunset)
  2. When the object's surroundings are dark.
  3. If the camera directly faces a fluorescent light or is installed in a place where there are considerable changes in illumination, the WHITE BALANCE function may become unstable.

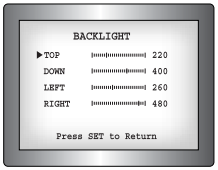
BACKLIGHT (Backlight Compensation)

When there is a strong backlight behind the object, clear images of the background as well as the object can still be obtained by using the BACKLIGHT function.

1. Please position the arrow to point to 'BACKLIGHT' on the SETUP menu by using the UP and DOWN buttons.
2. Please select the mode you wish to operate by pressing the LEFT or RIGHT button.



HIGH/MIDDLE/LOW :
You can adjust the sensitivity of BLC and BLC window's size and position. So that, It can achieve BLC function efficiently regardless of position of subject.



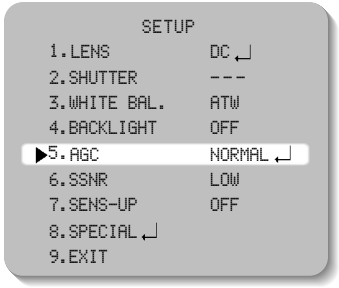
OFF : BLC function doesn't operate.

BACKLIGHT ON

BACKLIGHT OFF

AGC (Auto Gain Control)

1. Please position the arrow to point to 'AGC' on the SETUP menu by using the UP and DOWN buttons.
2. Please select the mode you wish to operate by pressing the LEFT or RIGHT button. As the level of gain increases, the screen gets brighter and the level of noise also increases.
   - **HIGH** : The gain increases or decreases within the range of 6dB ~ 34dB.
   - **NORMAL** : The gain increases or decreases within the range of 6dB ~ 30dB.
   - **OFF** : The gain is fixed at 6dB.



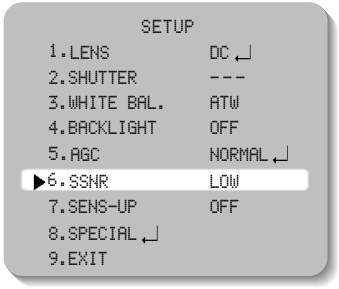
3. Please press the SETUP button. The BRIGHTNESS can be adjusted within the range of 1~70.

4. Please press the SETUP button when all the settings are complete.

SSNR (Samsung Super Noise reduction)

The background noise in the low light level decreases automatically as the level of gain changes.

1. Please position the arrow to point to 'SSNR' on the SETUP menu by using the UP and DOWN buttons.
2. Please select the mode you wish to operate by pressing the LEFT or RIGHT button.



- **OFF** : There is no reduction in noise level.
- **LOW** : There is a small reduction in noise level with almost no ghost image.
- **MIDDLE** : The most effective mode. There is a sufficient reduction in noise levels without causing much ghost imaging.
- **HIGH** : The level of noise is reduced greatly, however there is an increase in ghost imaging.

Notes

- When AGC is turned off, SSNR does not operate.

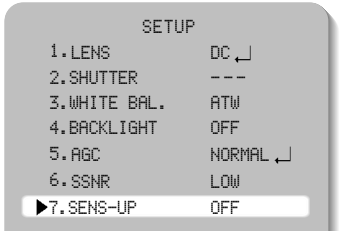
SENS UP (Low illuminance)

SENS UP helps maintain a bright, clear screen image by automatically detecting changes in the level of light in low light level conditions.

1. Please position the arrow to point to 'SENS UP' on the SETUP menu by using the UP and DOWN buttons.
2. Please select the mode you wish to operate by pressing the LEFT or RIGHT button.
   - **AUTO** : Low light level auto mode
   - **OFF** : The function does not operate.

Notes

- When SHUTTER is in the manual mode, SENS UP does not operate.
- When AGC is turned off, SENS UP does not operate.



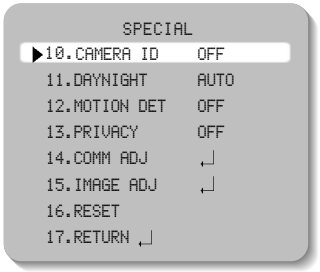
3. Please press the SETUP button when all the settings are complete.

Notes

- The maximum storage magnification in low light level can be adjusted by pressing the SETUP button in 'AUTO' mode.(X2~X128)
- As the magnification increases, the screen gets brighter; moving object gets more afterimage.
- If storage magnification is increased while SENS UP is operating, it may cause noise, and spots may appear; however this is normal.

SPECIAL

1. Please position the arrow to point to 'SPECIAL' on the SETUP menu by using the UP and DOWN buttons.
2. Please select the mode you wish to operate by pressing the UP or DOWN button.

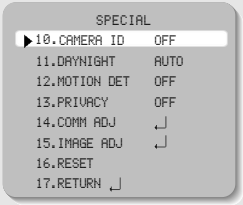


CAMERA ID : If the ID is input, the camera ID appears on the monitor.

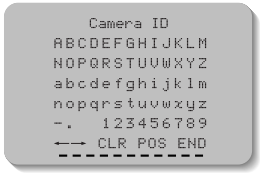
1) Please position the arrow to point to 'CAMERA ID' by using the UP or DOWN button.
2) Please select 'ON' by pressing the LEFT or RIGHT button.

Notes

- If 'OFF' is selected, the ID does not appear on the monitor even if it has been input.

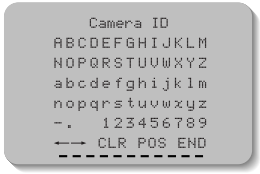


3) Please press the SETUP button.



4) Up to 15 letters can be used for the ID.

❶ Please move the cursor to the letter you wish to choose by using the UP and DOWN button.



❷ Select an ID from A,B~Y,Z, a,b~y,z, 0,1~8,9 by using the UP, DOWN, LEFT and RIGHT buttons.

❸ Please lock in the letters by using the SETUP button.

- When the letter is locked in, the cursor moves to the next space.

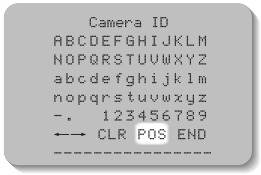
❹ Please repeat the above to input the ID.

Notes

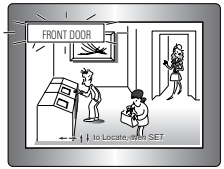
- **If the wrong name has been input.....**
  If you press the SETUP button after moving the cursor to CLR, all the letters will be erased. If you want to correct a letter, please move the cursor to the arrow at the bottom left of the screen and press 'SET'.
  Please position the cursor above the letter you wish to correct, and then move the cursor onto the letter you wish to choose and press the SETUP button.

5) When a name has been chosen, please select a position for the name display.

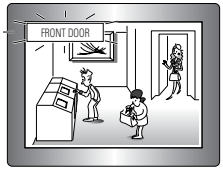
❶Please move the cursor onto 'POS' and then press the SETUP button.



❷The name will appear at the top left hand corner.



❸Please find the position you wish to display the name by using the 4 directional buttons, and then press the SETUP button.



6) Please select 'END' and then press the SETUP button to complete ID input.

DAY&NIGHT (ICR TYPE) : Select from COLOR, B/W or AUTO modes.

•AUTO: According to the input luminance level, IR Cut Filter is automatically switched to the appropriate mode for daytime or night-time. The COLOR mode is operated for daytime, and it converts to BW mode for night-time

•COLOR : COLOR mode

•B/W : BW mode. Please press SETUP button to turn on or off the burst signal on BW mode.

Notes

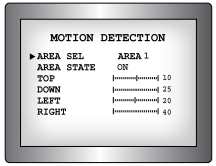
• If AGC is OFF, you can't select AUTO mode and B/W mode.
When DayNight mode is set to Auto under the condition which the strong IR light is flickering periodically, a malfunction of IR-Cut filter may occur.

MOTION DETECTION :

This product has a feature that allows you to observe movements of objects in 4 different areas on the screen, and the words 'MOTION DETECTED' appear on the screen when movement is detected; hence a single individual can conduct supervision efficiently. The camera detects an object's movement by sensing disparity of outline, and level of brightness and color.

• Please press the SETUP button.
  - OFF : MOTION DETECTION mode is cancelled.
  - ON : Any motion in the selected areas is observed.
• Please select the area you wish to observe from the 3 areas in AREA SEL mode.
• Please select ON mode for the chosen area.

• Please adjust the size of the area to be observed by using the UP, DOWN, LEFT or RIGHT button.



• Please press the SETUP button to save the changes and complete the setting.

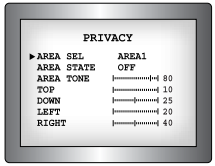
Notes

• There is no 'MD' output signal. 'MD' is on screen display only words.

PRIVACY : Mask privacy area you do not wish to appear on the screen.

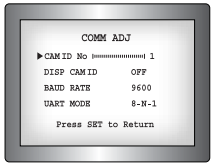
- OFF : Cancels the PRIVACY mode.
- ON : Operates the PRIVACY mode.

• Please press the SETUP button.
• Please select the area you do not wish to appear from the 4 areas in AREA SEL mode.
• Please select ON mode for the chosen area.
• Please adjust the size of the area to be concealed by using the UP, DOWN, LEFT or RIGHT button.



COM ADJ :

When wish to control CAMERA by external communication control device, it is function that set up CAMERA's communication states and protocol.



• CAM ID : Assign ID number to the camera. It is restricted available to set ID from 1~255
• DISP CAMID : Displays CAM ID on the top left of the screen.
• BAUD RATE : Configure baud rate from 9600bps, 19200bps, 38400bps, 57600bps.
• UART MODE: Configure parity bit to NONE,EVEN, or ODD. Data bit is set to 8bit and stop bit to 1bit.
• END

Notes

• Please set CAM ID of CAMERA and external communication control device equally.

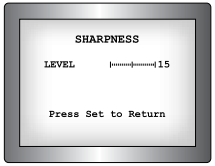
IMAGE ADJ : Includes image quality or special function factors.

• MIRROR : Sets a horizontal image inversionj.

MIRROR ON

MIRROR OFF

• **SHARPNESS** : The outline of the video image becomes cleaner and more distinctive as the level of SHARPNESS increases. If the level goes up excessively, however, it may affect the video image and generate noise.



RESET : Returns to the level which was set by the manufacturer for shipment.
RETURN : Returns to the SETUP menu.

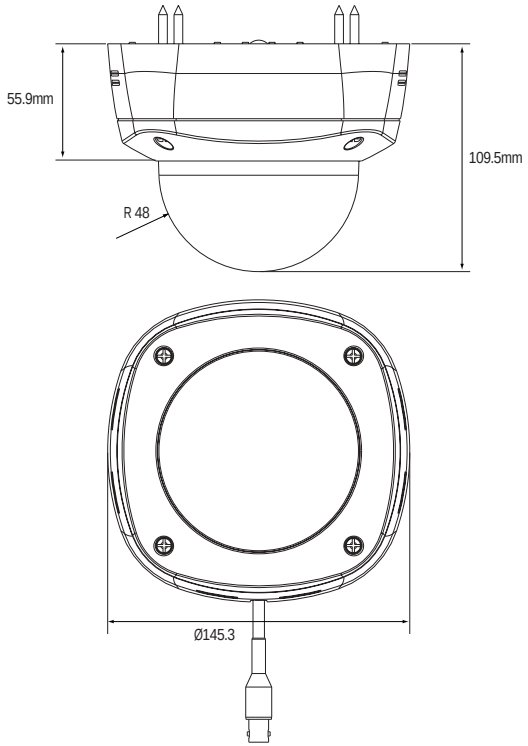
EXIT

Saves all the setting menus and then exits.

If there are problems in operation, please refer to the items below. If the problem persists, please contact the agent you purchased this product from.

Problem	Solution
Nothing appears on the screen.	• Please check the power connection. • Please check the video signal line connection.
The video image is not clear.	• Please check if the lens is clean. Please clean the lens with a clean cloth or brush. • Please adjust the contrast feature of the monitor. • Please make sure that the screen is not exposed directly to a bright light. Please move the camera if necessary.
The screen is dark.	• Please adjust the contrast feature of the monitor. • If you have an intermediate device, set the 75Ω/ Hi-z properly, and check the terminals.
There is a problem with the camera operation. The camera surface is too hot and black stripes appear on the screen.	• Please check if an appropriate power source to the camera complies with the manufacturer's standard requirement, or if the voltage keeps changing.
Color are not quite right	• Please check the 'WHITE BAL' setting.
DAY&NIGHT(AUTO, B/W) mode doesn't Operate.	• Please check if the AGC menu is set to the OFF position.
SENS-UP function doesn't operate.	• Please check if the AGC menu is set to the OFF position.
IR-LED isn't lighted.	• Isn't DAYNIGHT function setting up the color mode? • Please change the AUTO or B/W mode.
OSD control doesn't operate.	• Please confirm whether communication setting method and RS-485 control terminal connection fit.

Dimension



Specifications

			SIR-4250N	SIR-4250P
	POWER		DC12V±10%, 300mA/3.6W(LED ON)	
CCD	Sensor		1/3 inch, Sony Super HAD CCD	
CCD	Total Pixels		811(H) x 508(V)	795(H) x 596(V)
CCD	Effective Pixels		768(H) x 494(V)	752(H) x 582(V)
Sync.	Scanning System		2:1 Interlace	
Sync.	Synchronization		Internal Fixed	
Sync.	Frequancy		H:15.734 KHz, V :59.94 Hz	H: 15.625 KHz, V: 50.00 Hz
ELECTRICAL	Resolution		520 Lines(Color) / 570 Lines(B/W)	
ELECTRICAL	Video Output		CVBS : 1.0Vp-p/75Ω	
ELECTRICAL	S/N (Y signal)		50 dB (AGC Off/Weight ON)	
ELECTRICAL	Min.	LED ON	0 Lux	
ELECTRICAL	Illumination	LED OFF	0.3 Lux(Color), 0.002(Sens-up)/ @F1.2	
ELECTRICAL	Visibility Range (IR LED ON)		INDOOR :16M (IR LED Number:10EA)	
ELECTRICAL	Day & Night(ICR)		AUTO/ COLOR / B/W	
ELECTRICAL	Gain Control		NORMAL/HIGH/OFF Selectable	
ELECTRICAL	White Balance		ATW(1800˚K ~ 10,500˚K)/AWC/Manual	
ELECTRICAL	Electronic shutter speed		1/60 Fixed / Flickerless	1/50 Fixed / Flickerless
ELECTRICAL	Back Light Compensation		LOW/MIDDLE/HIGH/OFF Selectable	
ELECTRICAL	SSNR		LOW/MIDDLE/HIGH/OFF Selectable	
ELECTRICAL	Sens-Up		AUTO/OFF (selectable limit X2 _X128)	
ELECTRICAL	O.S.D		5-Key / RS-485 Control	
ELECTRICAL	Camera Title		OFF/ON (Displayed 15 characters)	
ELECTRICAL	Camera ID		255 ID Selectable	
ELECTRICAL	Motion Detection		ON/OFF (4 Programmable Zone)	
ELECTRICAL	Communication		RS-485(9600, 19200, 38400 and 57600bps is selectable) Pelco-D Protocol is available	
ELECTRICAL	Mirror		ON/OFF	
ELECTRICAL	Privacy		ON/OFF (4 Programmable Zone)	
ELECTRICAL	Sharpness		ON/OFF (Level Adjustable)	
	LENS		X2.5 Vari-Focal Lens (F1.2, f= 3.8mm ~ 9.5 mm)	
	Operating Temperature/Humidity		-10˚C to +50˚C / 30% to 80%	
	Dimension		Ø145.3X 109.5 mm(H)	
	Weight		985g	

DECLARATION OF CONFORMITY

Application of Council Directive(s)	89 / 336 / EEC
Manufacturer's Name	SAMSUNG TECHWIN CO., LTD
Manufacturer's Address	SAMSUNG TECHWIN CO., LTD 42, SUNGJU-DONG CHANGWON-CITY, KYUNGNAM, KOREA, 641-120
European Representative Name	
European Representative Address	
Equipment Type/Environment	CCTV Camera
Model Name	SIR-4250P
Beginning Serial NO.	S7100001
Year of Manufacture	2007. 10. 01
Conformance to	EN 50081-1:1992 EMC-Directive 89/336 EEC and 92/31/EEC EN 50130-4:1996

We, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s).

Manufacturer	SAMSUNG TECHWIN CO., LTD	Legal Representative in Europe
Signature	Young Taek, SON	Signature
Full Name	YOUNG TAEK SON	Full Name
Position	QUALITY CONTROL MANAGER	Position
Place	CHANGWON, KOREA	Place
Date	2007. 10. 01	Date